

# **Initial Characterisation of the Groundwater Bodies within the Maltese Water Catchment District under the Water Policy Framework Regulations, 2004**

**Status: Final Draft  
Date: 13<sup>th</sup> January 2005**

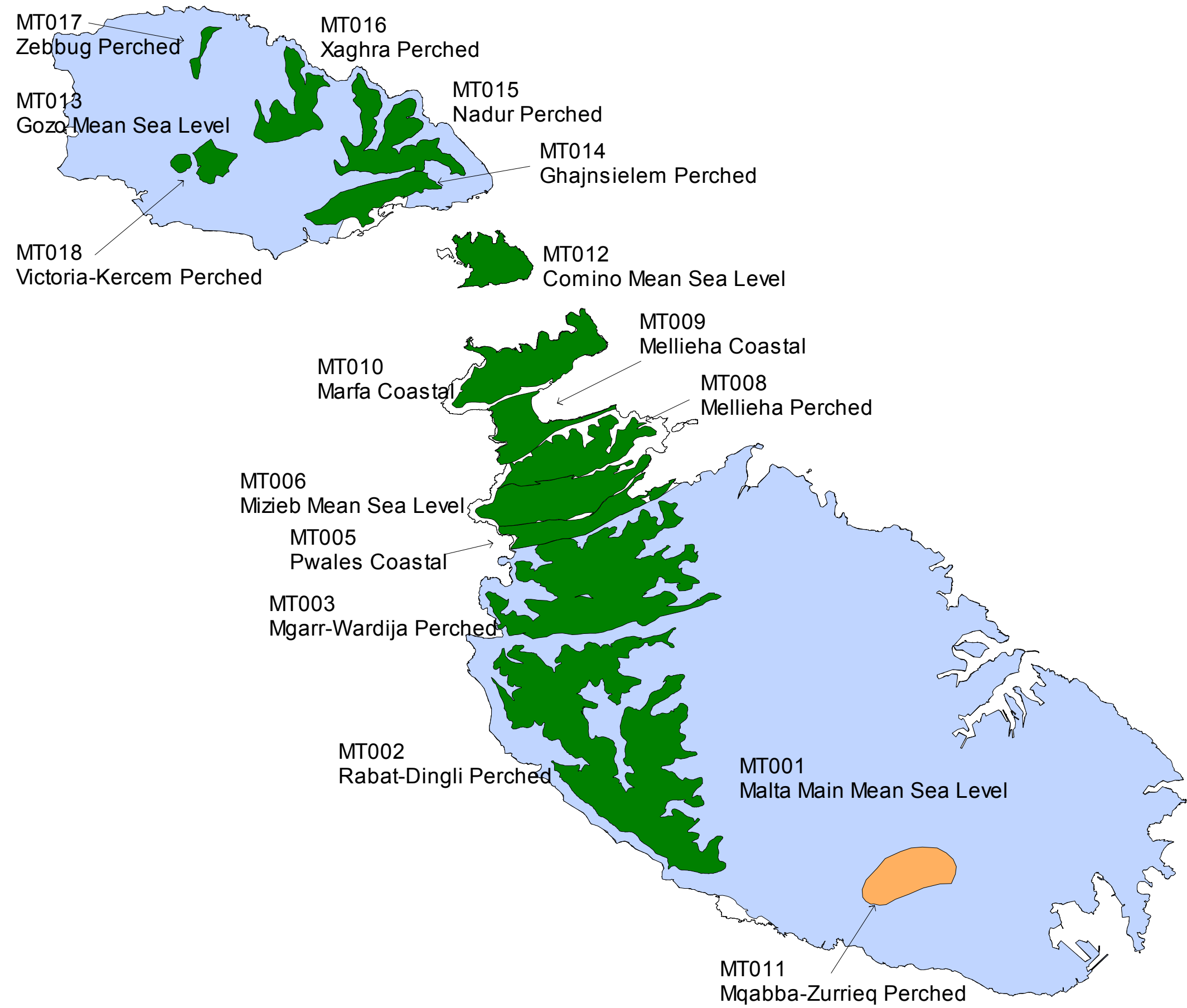
# ANNEX 1

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1. Groundwater bodies in the Maltese Water Catchment District.
2. Main land-use features in the Maltese Islands (Corinne Land-cover 2000).
3. Location of Terrestrial Eco-systems which are potentially directly dependent on groundwater.
4. Chloride content of water abstracted from the groundwater bodies in the Maltese Water Catchment District.
5. Nitrate content of water abstracted from the groundwater bodies in the Maltese Water Catchment District.
6. Groundwater bodies at risk of failing to achieve the quantitative status objectives of the regulations.
7. Groundwater bodies at risk of failing to achieve the qualitative status objectives of the regulations.
8. Groundwater bodies at risk of failing to achieve the environmental objectives of the regulations.

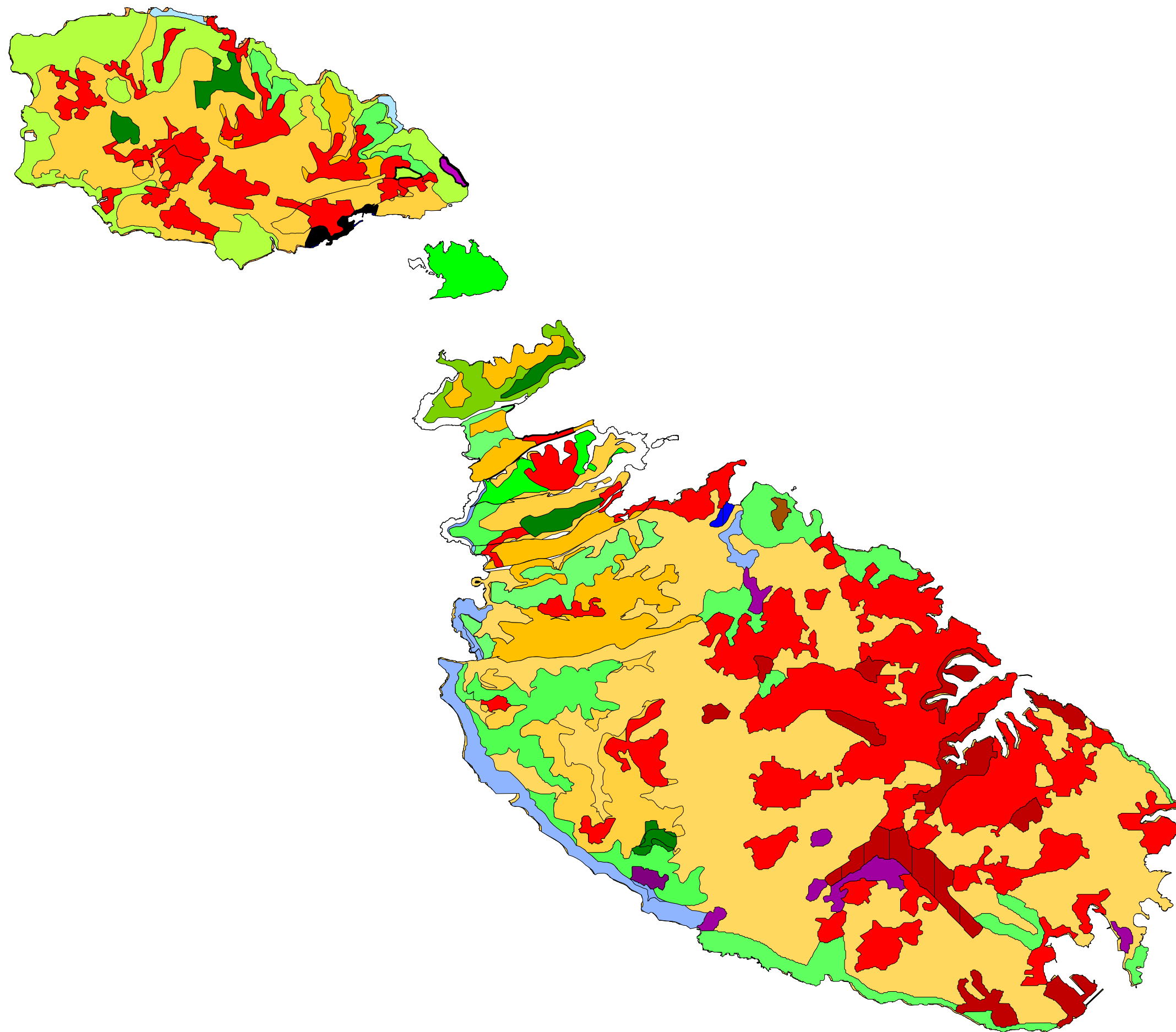


MALTA RESOURCES AUTHORITY



**GROUNDWATER BODIES**

**PRELIMINARY IDENTIFICATION  
OF BODIES OF GROUNDWATER  
WITHIN THE MALTESE WATER  
CATCHMENT DISTRICT**



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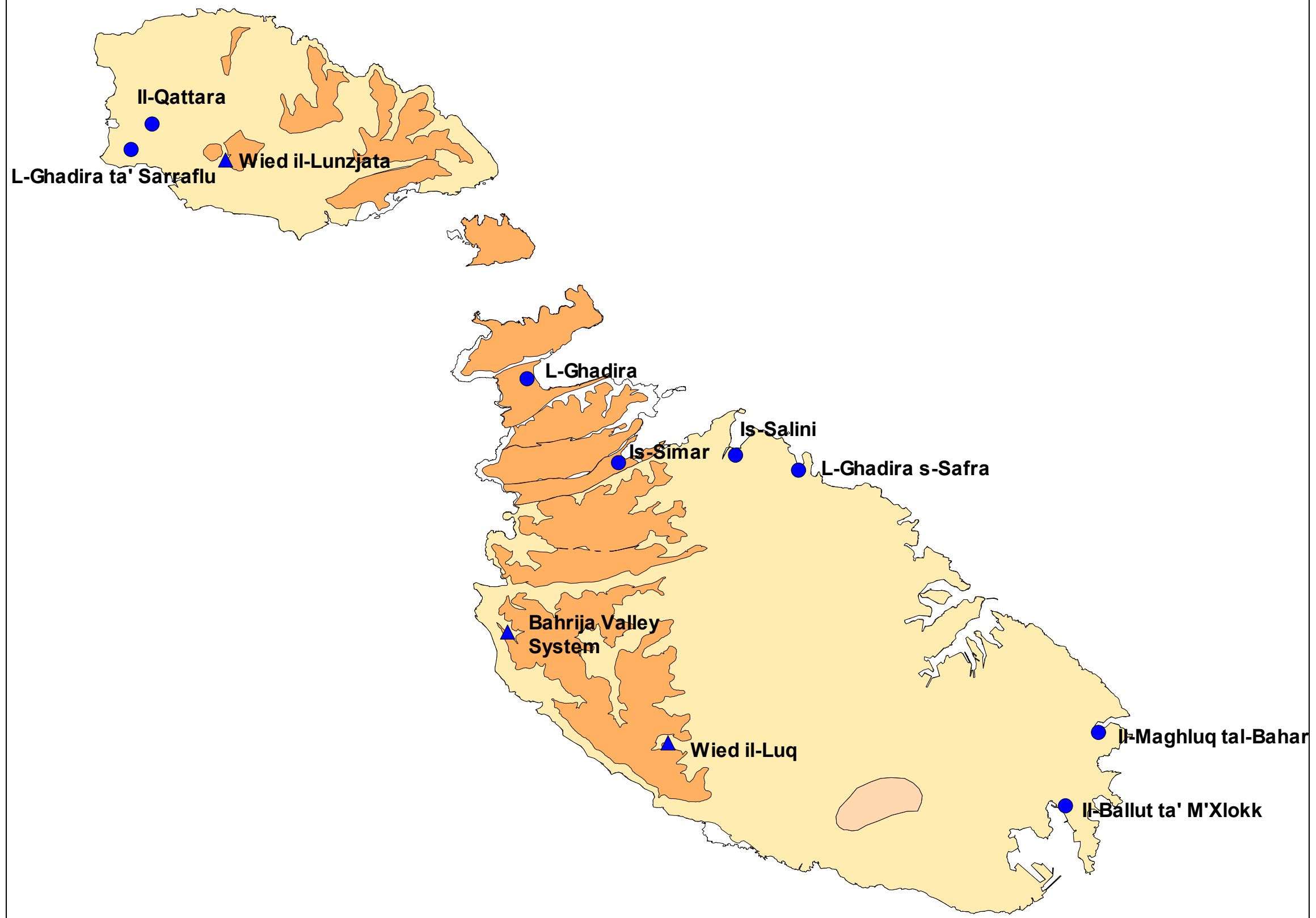
- URBAN FABRIC
- AGRICULTURE (including areas with significant natural vegetation)
- SCHLEROPHYLLOUS VEGETATION
- SPARSELY VEGETATED AREAS
- MIXED WOODLAND
- INDUSTRIAL AREAS
- MINERAL ABSTRACTION SITES
- AIRPORT
- LANDFILL/CONTAMINATED AREAS

**LAND-USE**

**MAIN LAND-USE FEATURES  
BASED ON THE CORINNE 2000  
LANDCOVER DATA FOR THE  
MALTESE ISLANDS**



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● SURFACE WATER ECO-SYSTEM

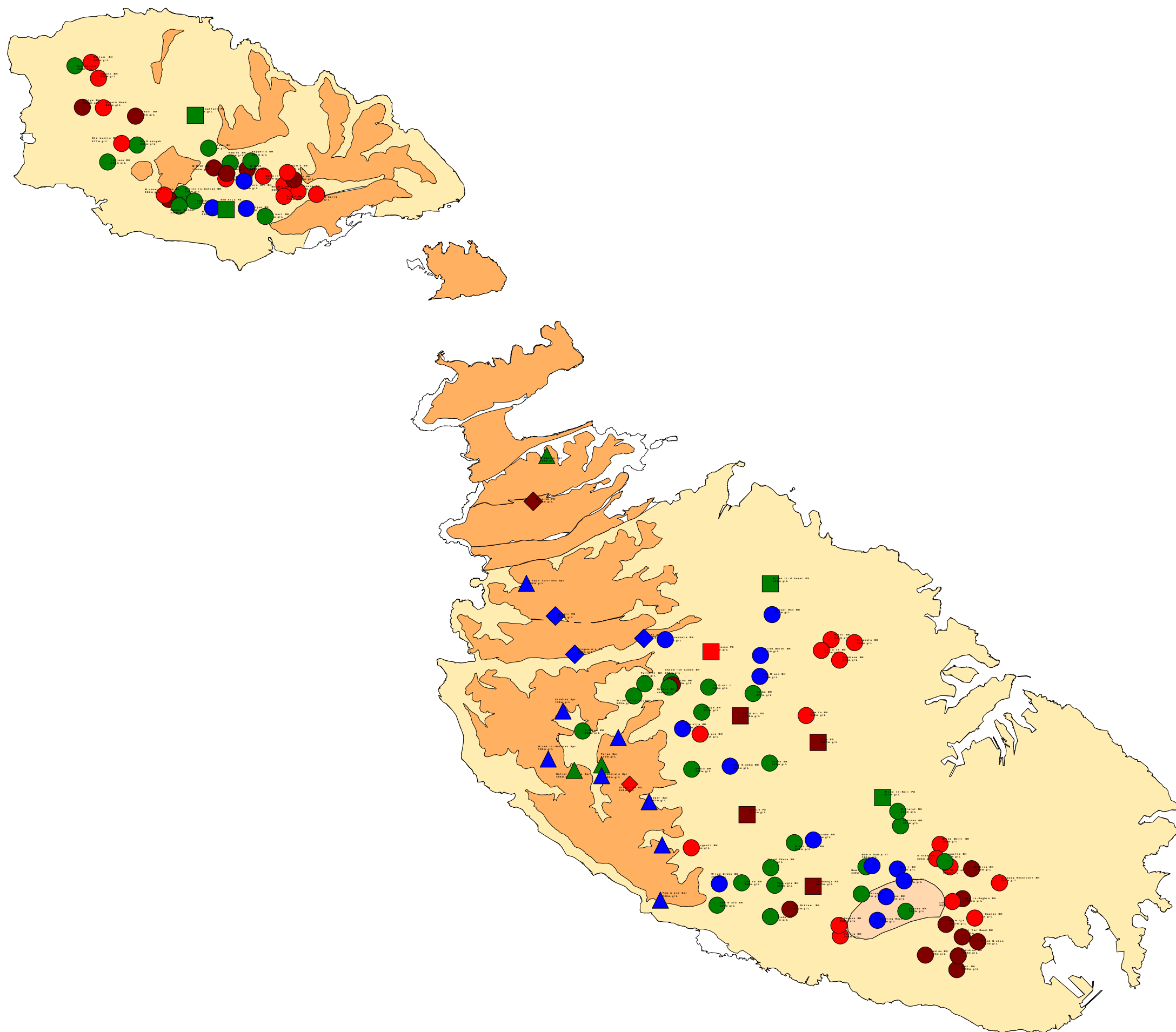
▲ WATER COURSE

**DIRECTLY DEPENDENT TERRESTRIAL ECO-SYSTEMS**

**PRELIMINARY IDENTIFICATION OF TERRESTRIAL ECOSYSTEMS WHICH ARE DIRECTLY DEPENDENT ON GROUNDWATER**



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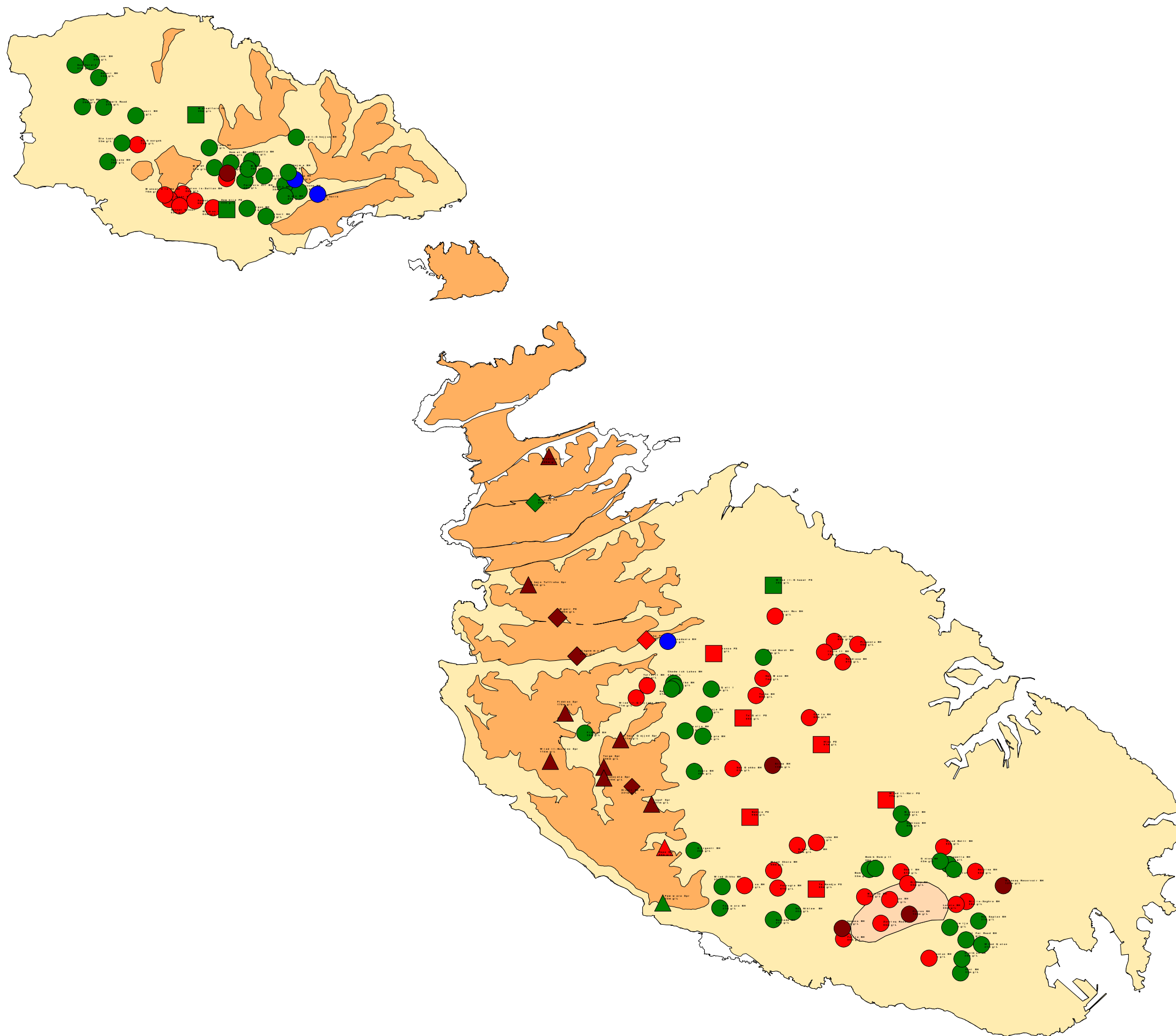
- Pumping Station in LCL Aquifer
- Borehole in LCL Aquifer
- ◆ Pumping Station in UCL Aquifer
- ▲ Spring in UCL Aquifer
  
- 0 - 250mg/L
- 250 - 500mg/L
- 500 - 1000mg/L
- 1000mg/L -

**GROUNDWATER CHEMICAL STATUS**

**CHLORIDE CONCENTRATION OF GROUNDWATER ABSTRACTED FROM LCL AND UCL AQUIFERS (2003)**



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- Pumping Station in LCL Aquifer
- Borehole in LCL Aquifer
- ◆ Pumping Station in UCL Aquifer
- ▲ Spring in UCL Aquifer

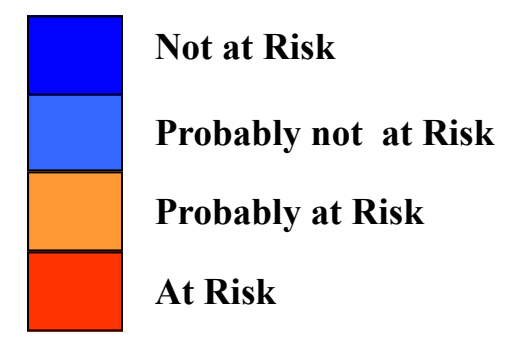
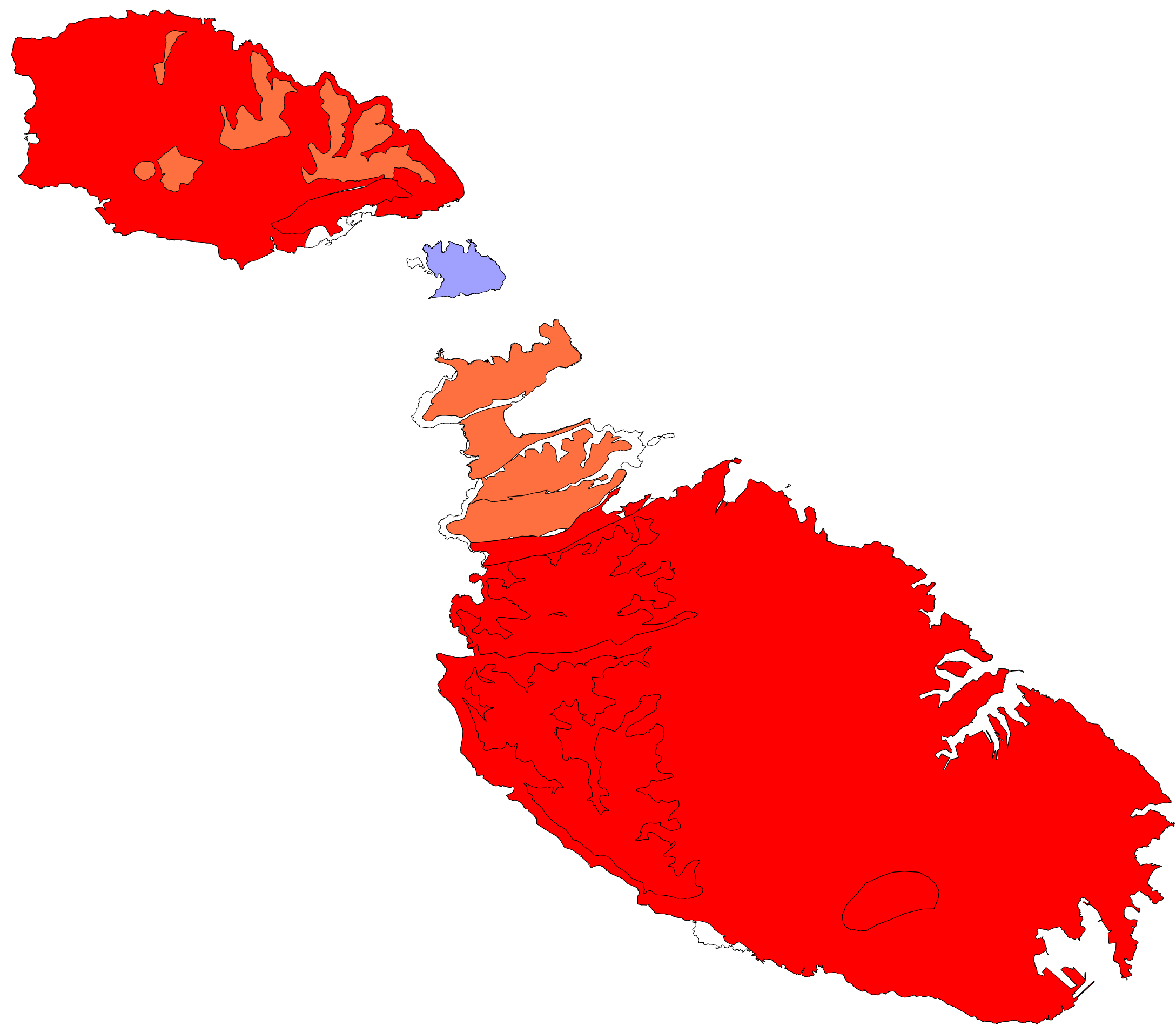
- 0 - 25mg/L
- 25 - 50mg/L
- 50 - 100mg/L
- 100mg/L -

**GROUNDWATER CHEMICAL STATUS**

**NITRATE CONCENTRATION OF GROUNDWATER ABSTRACTED FROM LCL AND UCL AQUIFERS (2003)**



MALTA RESOURCES AUTHORITY

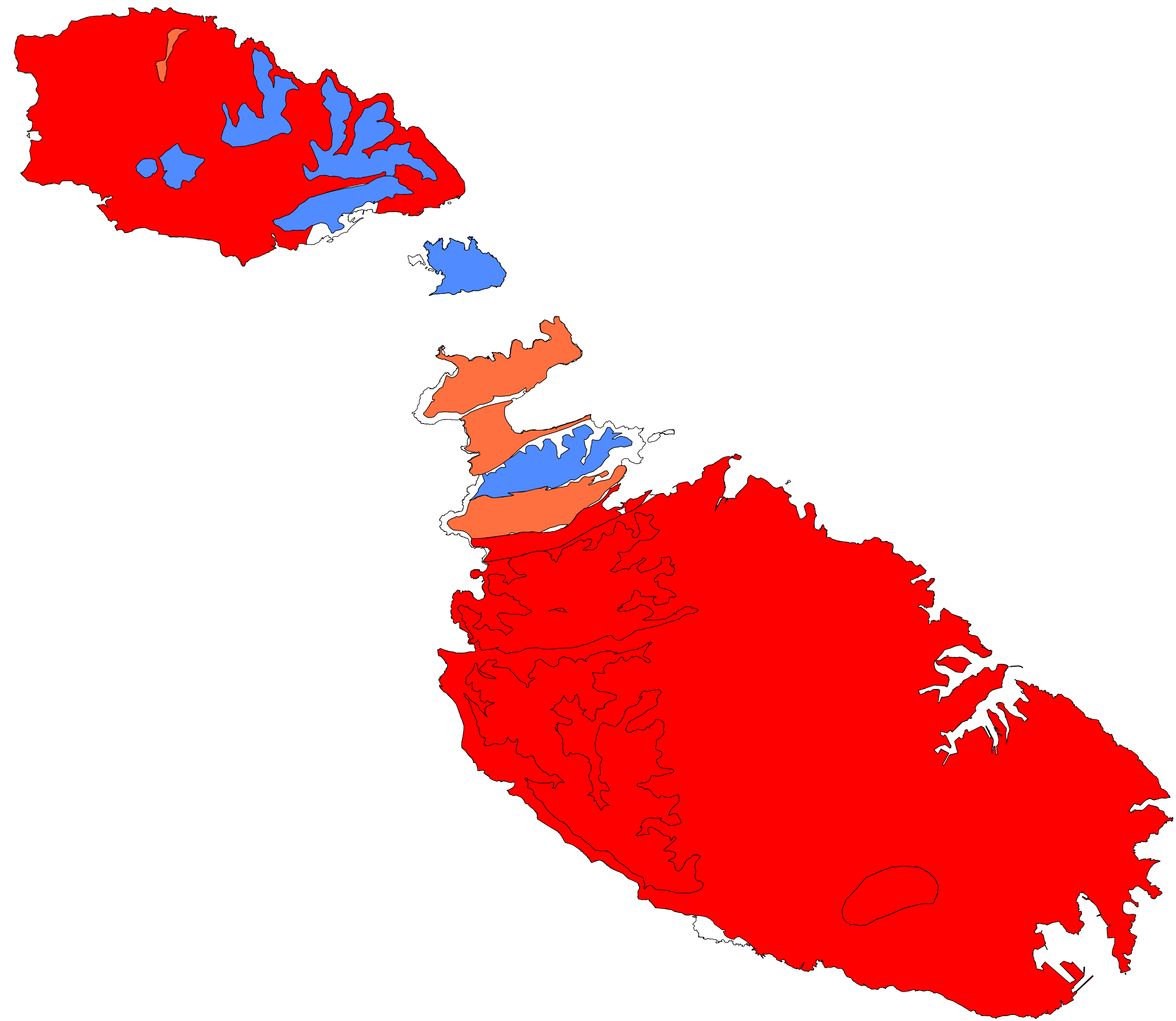






**GROUNDWATER  
RISK ASSESSMENT**

**PRELIMINARY IDENTIFICATION  
OF BODIES OF GROUNDWATER  
AT RISK OF FAILING TO  
ACHIEVE THE OBJECTIVES RE-  
LATED TO THEIR QUALITATIVE  
STATUS**



MALTA RESOURCES AUTHORITY



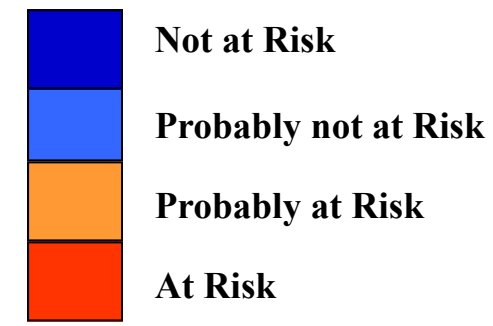
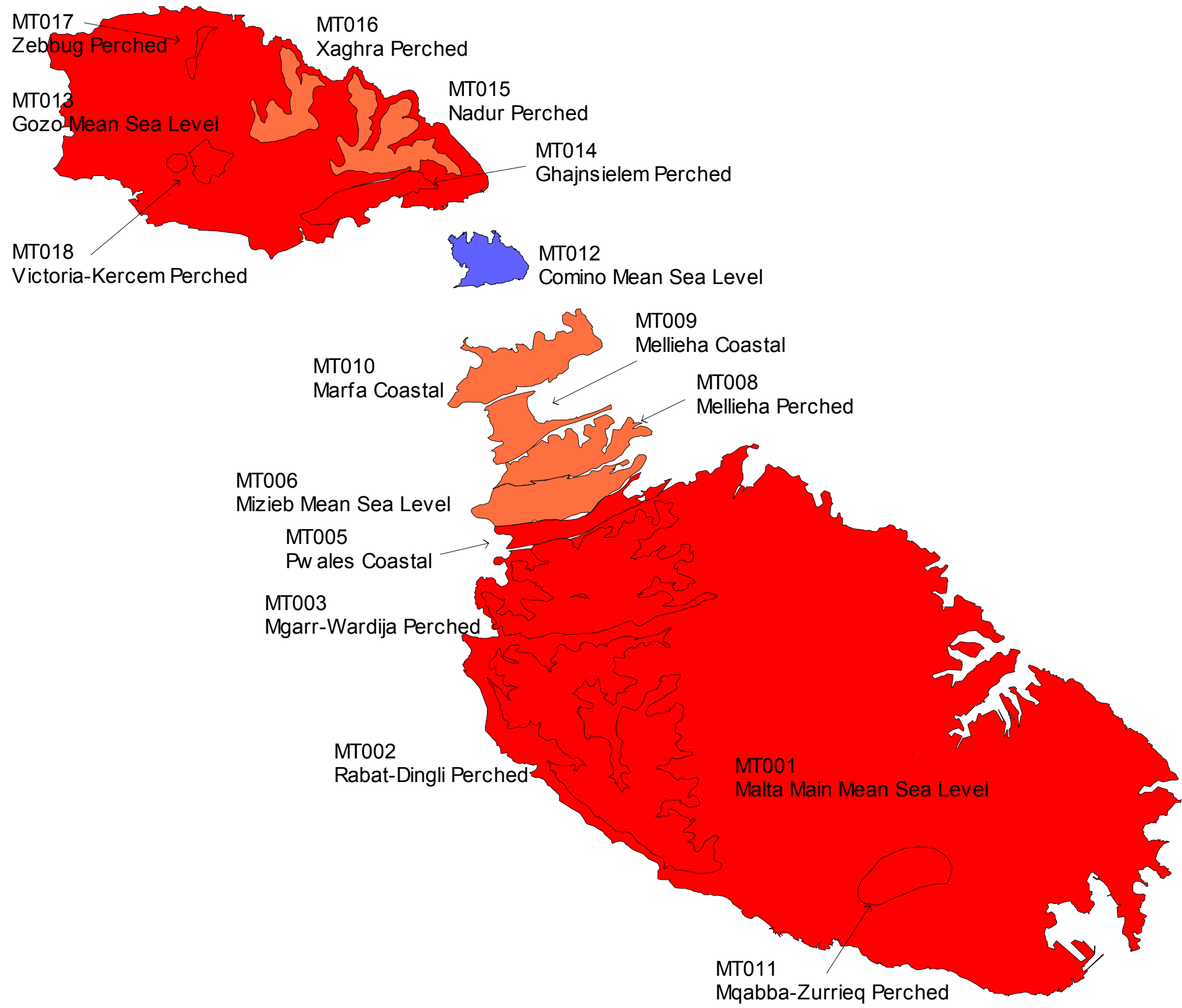
-  **Not at Risk**
-  **Probably not at Risk**
-  **Probably at Risk**
-  **At Risk**

**GROUNDWATER  
RISK ASSESSMENT**

**PRELIMINARY IDENTIFICATION  
OF BODIES OF GROUNDWATER  
AT RISK OF FAILING TO  
ACHIEVE THE OBJECTIVES RE-  
LATED TO THEIR QUANTITA-  
TIVE STATUS**



MALTA RESOURCES AUTHORITY



**PRELIMINARY RISK ASSESSMENT**

**GROUNDWATER BODIES DETERMINED AT RISK OF FAILING TO ACHIEVE THE ENVIRONMENTAL OBJECTIVES OF THE WATER FRAMEWORK DIRECTIVE**